

SOLRAD 7A

MACHINE RED. 3 POINTS PER PASS

64-001D-01A

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004230	DS004230	D002846	1	01/12/64 - 08/31/64

SOLRAD 7A

HAND RED. 1 POINT PER PASS

64-001D-01B

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR# -----	DS# -----	D# -----	FILES -----	TIME SPAN -----
DR004231	DS004231	D002847	1	01/11/64 - 02/03/65

OFFICIAL FILE COPY-NSSDC

64-001D-01A

1964 001D
GREB 5

(01) Solar X-Ray

Tapes
D00088
D00089

NAME

DATE

X-RAY AND ULTRA-VIOLET EXPERIMENT

1964 01 D

Machine-reduced Data on 1 Card Image Magnetic Tape - 01A
(3 points per pass)

COLUMN	EXPLANATION
1-2	Year - 1900, i.e., 64
3-4	Month
5-6	Day of month
10-13	Universal time of start of pass Hour - minute
17-20	Universal time of end of pass Hour - minute
25-27	Orbit number
31-32	Station code (see attached list)
38-42 (F5.2)	Aspect angle
45-54 (E9.4)	44-60A flux
57-66 (E9.4)	8-12A flux

Timespan

Jan 12, 1964 to Aug. 31, 1964

The first card is a header card and the second card is blank.

TABLE 2

STATION IDENTIFICATION

CODE	STATION
HV	Hybla Valley, Virginia
SP	South Point, Hawaii
PM	Point Mugu, California
BP	Blossom Point, Md.
MO	Mojave
FM	Fort Myers, Florida
WK	Winkfield, England
CO	College, Alaska
LI	Lima, Peru
QU	Quito, Ecuador
PA	Point Arguello, California
WO	Woomera, Australia
GF	Grand Forks, Michigan
ST	Santiago, Chile
RO	Rosman, North Carolina
UL	Ulaska, Alaska
OR	Ororal
JO	Johannesburg, Union of S. Africa
KO	Kano
KI	Kauai
MA	Madagascar
NE	Newfoundland
CA	Canberra
KP	Kaena Point, Hawaii

TABLE 1

STATISTICAL DATA

LOCATION

CODE

Alaska Point, Alaska	11
Alaska Point, Alaska	12
Alaska Point, Alaska	13
Alaska Point, Alaska	14
Alaska Point, Alaska	15
Alaska Point, Alaska	16
Alaska Point, Alaska	17
Alaska Point, Alaska	18
Alaska Point, Alaska	19
Alaska Point, Alaska	20
Alaska Point, Alaska	21
Alaska Point, Alaska	22
Alaska Point, Alaska	23
Alaska Point, Alaska	24
Alaska Point, Alaska	25
Alaska Point, Alaska	26
Alaska Point, Alaska	27
Alaska Point, Alaska	28
Alaska Point, Alaska	29
Alaska Point, Alaska	30
Alaska Point, Alaska	31
Alaska Point, Alaska	32
Alaska Point, Alaska	33
Alaska Point, Alaska	34
Alaska Point, Alaska	35
Alaska Point, Alaska	36
Alaska Point, Alaska	37
Alaska Point, Alaska	38
Alaska Point, Alaska	39
Alaska Point, Alaska	40
Alaska Point, Alaska	41
Alaska Point, Alaska	42
Alaska Point, Alaska	43
Alaska Point, Alaska	44
Alaska Point, Alaska	45
Alaska Point, Alaska	46
Alaska Point, Alaska	47
Alaska Point, Alaska	48
Alaska Point, Alaska	49
Alaska Point, Alaska	50
Alaska Point, Alaska	51
Alaska Point, Alaska	52
Alaska Point, Alaska	53
Alaska Point, Alaska	54
Alaska Point, Alaska	55
Alaska Point, Alaska	56
Alaska Point, Alaska	57
Alaska Point, Alaska	58
Alaska Point, Alaska	59
Alaska Point, Alaska	60
Alaska Point, Alaska	61
Alaska Point, Alaska	62
Alaska Point, Alaska	63
Alaska Point, Alaska	64
Alaska Point, Alaska	65
Alaska Point, Alaska	66
Alaska Point, Alaska	67
Alaska Point, Alaska	68
Alaska Point, Alaska	69
Alaska Point, Alaska	70
Alaska Point, Alaska	71
Alaska Point, Alaska	72
Alaska Point, Alaska	73
Alaska Point, Alaska	74
Alaska Point, Alaska	75
Alaska Point, Alaska	76
Alaska Point, Alaska	77
Alaska Point, Alaska	78
Alaska Point, Alaska	79
Alaska Point, Alaska	80
Alaska Point, Alaska	81
Alaska Point, Alaska	82
Alaska Point, Alaska	83
Alaska Point, Alaska	84
Alaska Point, Alaska	85
Alaska Point, Alaska	86
Alaska Point, Alaska	87
Alaska Point, Alaska	88
Alaska Point, Alaska	89
Alaska Point, Alaska	90
Alaska Point, Alaska	91
Alaska Point, Alaska	92
Alaska Point, Alaska	93
Alaska Point, Alaska	94
Alaska Point, Alaska	95
Alaska Point, Alaska	96
Alaska Point, Alaska	97
Alaska Point, Alaska	98
Alaska Point, Alaska	99
Alaska Point, Alaska	100

NSSDC ACQUISITION FILE

DATE RECEIVED 10/21/68 INITIALS RPS

ID NUMBER 4964 004D 04A

FOLDER DSD ITEM NUMBER 1

64-001D-01B

X-RAY AND ULTRA-VIOLET EXPERIMENT

1964 01 D

D-00089 C-2847

Hand-reduced Data on 1 Card Image Magnetic Tape
(1 point per pass)

5046 Records

Several cards (1 to 5) are present for each station pass reduced. The first 8 columns on each card are a serial number of unknown function and origin. Similarly an edit card number sometimes appears in columns 77-80 of the first card of a station pass group and probably can be ignored. The first card of each group contains:

COLUMN	EXPLANATION
10-11	Year - 1900, i.e., <u>64</u> 9x
12-13	Month 72
14-15	Day of month 72
17-22	Universal time of <u>start</u> of pass 1x Hour - minute - second 76
24-25	Station code (see attached list) 1x
26-29	Pass number A2
31-32	Two letters - unknown purpose 8x
34-39	Universal time of <u>end</u> of pass 1x Hour - minute - second 76
41-50	2 words - unknown purpose
52-55 & 57-64	Refer to Ultra-violet detectors Purpose unknown
65-70	Refer to pulse width system (sun aspect sensors) Purpose unknown
77-80	Edit card number mentioned above

Second card:

COLUMN	EXPLANATION
17-28	= ASPECT ANGLE 28x
29-34 (dec. pt. in 32)	= Aspect angle in degrees F6.2
49-51	= UVI
53-59 (dec. pt. in 55)	= Ultra-violet current

Any or all of the following cards are present to complete the group of cards representing each

station pass:

COLUMN	EXPLANATION
9-12	= X60 D
13-22 (dec. pt. in 16, E No.)	= Current in the 44-60A detector
28-31	= X60 F

COLUMN	EXPLANATION
33-38 (dec. pt. in 34)	Flux for 44-60 A as computed from the 44-60A current ⁶
44-53 =	X020 (X60)F
55-60 (dec. pt. in 56)	Flux for 0-20 A as computed from the 44-60A current
63-67 =	X020F
69-74 (dec. pt. in 70)	Flux for 0-20A computed by adding the 0-8A flux from the 2-8 A detector current to the 8-20A flux calculated from the 8-14A detector current
COLUMN	EXPLANATION

9-12 =	X55I
13-22 (dec. pt. in 16, E No.)	Current in the 44-55A detector
24-27 =	X55F
29-35 (dec. pt. in 31)	Flux for 44-55A as computed from the 44-55A current ⁷
38-41 =	X16I
43-51 (dec. pt. in 45, E No.)	Current in the 8-16A detector
54-58 =	X820F
60-66 (dec. pt. in 62)	Flux for 8-20A as computed from the 8-16A current ⁷
68-72 =	X550F
74-80 (dec. pt. in 76)	Flux for 44-55A as computed from the 44-60A flux

COLUMN	EXPLANATION
9-12 =	X28I
13-22 (dec. pt. in 16, E No.)	Current in the 2-8A detector
23 =	X Purpose unknown
25-28 =	X08F
30-36 (dec. pt. in 32)	Flux for 0-8A as computed from the 2-8A current ⁷
39-42 =	X14I
44-52 (dec. pt. in 46, E No.)	Current in the 8-14A detector
55-58 =	X12F
60-66 (dec. pt. in 62)	Flux for 8-12A as computed from 8-14A detector ⁷
68-72 =	X820F
74-80 (dec. pt. in 76)	Flux for 8-20A as computed from the 8-14A detector ⁷

Timespan of Data

Ultra-violet detectors	Jan 11, 1964 to Jan. 12, 1964
44-55A detector	Jan 11, 1964 to Feb. 6, 1964
8-16A detector	Jan 11, 1964 to Feb. 6, 1964
2-8A detector	
8-14A detector	Jan 11, 1964 to Feb. 3, 1965
44-60A detector	

x16

TABLE 2

STATION IDENTIFICATION

CODE	STATION
HV	Hybla Valley, Virginia
SP	South Point, Hawaii
PM	Point Mugu, California
BP	Blossom Point, Md.
MO	Mojave
FM	Fort Myers, Florida
WK	Winkfield, England
CO	College, Alaska
LI	Lima, Peru
QU	Quito, Ecuador
PA	Point Arguello, California
WO	Woomera, Australia
GF	Grand Forks, Michigan
ST	Santiago, Chile
RO	Rosman, North Carolina
UL	Ulaska, Alaska
OR	Oroal
JO	Johannesburg, Union of S. Africa
KO	Kano
KI	Kauai
MA	Madagascar
NE	Newfoundland
CA	Cahberria
KP	Kaena Point, Hawaii

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X-RAY AND ULTRA-VIOLET EXPERIMENT

1964 01 D

Hand-reduced Data on 1 Card Image Magnetic Tape - 01B
(1 point per pass)

Several cards (1 to 5) are present for each station pass reduced. The first 8 columns on each card are a serial number of unknown function and origin. Similarly an edit card number sometime appears in columns 77-80 of the first card of a station pass group and probably can be ignored. The first card of each group contains:

COLUMN	EXPLANATION
10-11	Year - 1900, i.e., 64
12-13	Month
14-15	Day of month
17-22	Universal time of start of pass Hour - minute - second
24-25	Station code (see attached list)
26-29	Pass number
31-32	Two letters - unknown purpose
34-39	Universal time of end of pass Hour - minute - second
41-50	2 words - unknown purpose
52-55 & 57-64	Refer to Ultra-violet detectors Purpose unknown
65-70	Refer to pulse width system (sun aspect sensors) Purpose unknown
77-80	Edit card number mentioned above

Second card:

COLUMN	EXPLANATION
17-28	= ASPECT ANGLE
29-34 (dec. pt. in 32)	Aspect angle in degrees
49-51	= UVI
53-59 (dec. pt. in 55)	Ultra-violet current

Any or all of the following cards are present to complete the group of cards representing each station pass:

COLUMN	EXPLANATION
9-12	= X60 I
13-22 (dec. pt. in 16, E No.)	Current in the 44-60A detector
28-31	= X60F

COLUMN		EXPLANATION
33-38 (dec. pt. in 34)		Flux for 44-60 A as computed from the 44-60A current
44-53	=	X020 (X60)F
55-60 (dec. pt. in 56)		Flux for 0-20 A as computed from the 44-60A current
63-67	=	X020F
69-74 (dec. pt. in 70)		Flux for 0-20A computed by adding the 0-8A flux from the 2-8 A detector current to the 8-20A flux calculated from the 8-14A detector current

COLUMN		EXPLANATION
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9-12	=	X55I
13-22 (dec. pt. in 16, E No.)		Current in the 44-55A detector
24-27	=	X55F
29-35 (dec. pt. in 31)		Flux for 44-55A as computed from the 44-55A current
38-41	=	X16I
43-51 (dec. pt. in 45, E No.)		Current in the 8-16A detector
54-58	=	X820F
60-66 (dec. pt. in 62)		Flux for 8-20A as computed from the 8-16A current
68-72	=	X550F
74-80 (dec. pt. in 76)		Flux for 44-55A as computed from the 44-60A flux

COLUMN		EXPLANATION
9-12	=	X28I
13-22 (dec. pt. in 16, E No.)		Current in the 2-8A detector
23	=	X Purpose unknown
25-28	=	X08F
30-36 (dec. pt. in 32)		Flux for 0-8A as computed from the 2-8A current
39-42	=	X14I
44-52 (dec. pt. in 46, E No.)		Current in the 8-14A detector
55-58	=	X12F
60-66 (dec. pt. in 62)		Flux for 8-12A as computed from 8-14A detector
68-72	=	X820F
74-80 (dec. pt. in 76)		Flux for 8-20A as computed from the 8-14A detector

Timespan of Data

Ultra-violet detectors
 44-55A detector
 8-16A detector
 2-8A detector
 8-14A detector
 44-60A detector

Jan 11, 1964 to Jan. 12, 1964
 Jan 11, 1964 to Feb. 6, 1964
 Jan 11, 1964 to Feb. 6, 1964
 Jan 11, 1964 to Feb. 3, 1965

ASCII LIST OF DS004230

FILE 1 RECORD 1 84 BYTES

DATE START STOP ORBIT ST ASP.ANG. 44-60 FLUX 8-12 FLUX

ASCII LIST OF DS004230

FILE 1 RECORD 2 84 BYTES

ASCII LIST OF DS004230

FILE 1 RECORD 3 84 BYTES

64 112 1438 1454 11 CO 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 4 84 BYTES

64 112 1958 2013 14 CO 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 5 84 BYTES

113 1651 1706 26 FM 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 3211 84 BYTES

64	831	1954	1955	3242	ST	0.00	.0000E-99	.0000E-99
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ASCII LIST OF DS004230

FILE 1 RECORD 3212 84 BYTES

64	831	2053	2108	3243	CO	18.45	.1999E-01	.0000E-99
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ASCII LIST OF DS004230

FILE 1 RECORD 3213 84 BYTES

64	831	2104	2118	3243	MU	0.00	.0000E-99	.0000E-99
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ASCII LIST OF DS004230

FILE 1 RECORD 3214 84 BYTES

64	831	2105	2116	3243	MO	0.00	.0000E-99	.0000E-99
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ASCII LIST OF DS004230

FILE 1 RECORD 3215 84 BYTES

831	2240	2251	3244	CO	0.00	.0000E-99	.0000E-99
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ASCII LIST OF DS004231

FILE 1 RECORD 1 84 BYTES

01112146 640111 214620 SP0001 CT 220140 5X60 6 UVO 7X14X16 8PW 253B

ASCII LIST OF DS004231

FILE 1 RECORD 2 84 BYTES

1112146 ASPECT ANGLE .98 UVI .2276

ASCII LIST OF DS004231

FILE 1 RECORD 3 84 BYTES

1112146X60I -1.7623 3 X60F .0177 X020%X60<F .0417 X020F .0098

ASCII LIST OF DS004231

FILE 1 RECORD 4 84 BYTES

1112146X55I .9744 3 X55F .0114 X16I -.3399 3 X820F .0066 X550F .0122

ASCII LIST OF DS004231

FILE 1 RECORD 5 84 BYTES

1112146X28I 0.0000 4X X08F 0.0000 X14I .2199 3 X12F .0026 X820F .0098

ASCII LIST OF DS004231

FILE 1 RECORD 5041 84 BYTES
2 32048 X

ASCII LIST OF DS004231

FILE 1 RECORD 5042 84 BYTES
2 32227 65 2 3 222730 HV5415 BT 224230 5X60 6 0 7 X14 8PW XSAT847B

ASCII LIST OF DS004231

FILE 1 RECORD 5043 84 BYTES
2 32227 ASPECT ANGLE 14.80 PW

ASCII LIST OF DS004231

FILE 1 RECORD 5044 84 BYTES
2 32227X60I -3.1021 9 X60F .0313 X020%X60<F .0735 X020F 0.0000

ASCII LIST OF DS004231

FILE 1 RECORD 5045 84 BYTES
32227 X